



1/12

SEQUENCE LISTING

<110> THE JOHN HOPKINS UNIVERSITY

<120> ENGINEERED RNAi ADENOVIRUS SILENCING EXPRESSION (ERASE)
OF DNA REPAIR PROTEINS

<130> 59564-PCT (71699)

<140> PCT/US03/36367

<141> 2003-11-12

<150> 60/425,897

<151> 2002-11-12

<160> 41

<170> PatentIn Ver. 3.2

<210> 1

<211> 73

<212> DNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic
oligonucleotide

<400> 1

tagctctatac atgttctagt tgacggcaga agcttgtgcc gtcgactagg acatggtaga 60
gttacagttt ttt 73

<210> 2

<211> 79

<212> DNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic
oligonucleotide

<400> 2

gatcaaaaaaa ctgtaactct accatgtcct agtcgacggc acaagttct gccgtcaact 60
agaacatgat agagctacg 79

<210> 3

<211> 31

<212> DNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic
target sequence

<400> 3

tgccgtcaac tagaacatga tagagctaca g

<210> 4
<211> 73
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
oligonucleotide

<400> 4
cctggaggct tgtgttgagg ctgatacaga agcttgtgta tcagcctcag cataaggcctc 60
cggtagttt ttt 73

<210> 5
<211> 79
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
oligonucleotide

<400> 5
gatcaaaaaa ctacccggag gcttatgctg aggctgatac acaagcttct gtatcagcct 60
caacacaagc ctccaggcg 79

<210> 6
<211> 31
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
target sequence

<400> 6
tgtatcagcc tcaacacaag cctccaggca g 31

<210> 7
<211> 73
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
oligonucleotide

<400> 7
tagtatgttg ctacaatcag ctccgtaaga agcttgttac ggagctgatt gtggcgacgt 60
attactcttt ttt 73

<210> 8
<211> 79
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
oligonucleotide

<400> 8
gatcaaaaaa gagtaatacg tcgccacaat cagctccgta acaagcttct tacggagctg 60
attgttagcaa catactacg 79

<210> 9
<211> 31
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
target sequence

<400> 9
ttacggagct gattgttagca acatactact c 31

<210> 10
<211> 73
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
oligonucleotide

<400> 10
tattatattc ctctggtggtg gcactgccga agcttgggca gtgtcacact agagggatat 60
agtacagttt ttt 73

<210> 11
<211> 79
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
oligonucleotide

<400> 11
gatcaaaaaa ctgtactata tccctctagt gtgacactgc ccaagcttcg gcagtgccac 60
accagaggaa tataatacg 79

```

<210> 12
<211> 31
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
      target sequence

<400> 12
ggcagtgc31ca caccagagga atataataca g

<210> 13
<211> 73
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
      oligonucleotide

<400> 13
ttgctgcaat ccgcagaagt ctcgttatga agcttgataa tgagacttct gcggattgta 60
gtaattcttt ttt73

<210> 14
<211> 79
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
      oligonucleotide

<400> 14
gatcaaaaaaa gaatttactac aatccgcaga agtctcattta tcaagcttca taacgagact 60
tctgcggatt gcagcaacg79

<210> 15
<211> 30
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
      target sequence

<400> 15
ataacgagac ttctgcggat tgcagcaacc30

<210> 16
<211> 73
<212> DNA
<213> Artificial Sequence

```

<220>
<223> Description of Artificial Sequence: Synthetic
oligonucleotide

<400> 16
ctcatgacca ctggccattc cacagcatga agcttcatgc tgtggagtgg ccgggtggta 60
tgagtcgtt ttt 73

<210> 17
<211> 79
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
oligonucleotide

<400> 17
gatcaaaaaa cgactcataa ccaccggcca ctccacagca tcaagcttca tgctgtggaa 60
tggccagtggtt tcatgagcg 79

<210> 18
<211> 31
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
target sequence

<400> 18
atgctgtgga atggccagtg gtcatgagcc g 31

<210> 19
<211> 73
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
oligonucleotide

<400> 19
atgctgtgtaa tgccagcacc gcggggctga agctttagcc tcgtggtgct ggtattacag 60
atatcttttt ttt 73

<210> 20
<211> 79
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
oligonucleotide

<400> 20
gatcaaaaaa aagatatatcg taataccagc accacgaggc tcaagcttca gccccgcgg 60
gctggcatta cagacatcg 79

<210> 21
<211> 31
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
target sequence

<400> 21
agccccgcgg tgctggcatt acagacatct t 31

<210> 22
<211> 73
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
oligonucleotide

<400> 22
gatgaacttc acccaataat cctaggagga agcttgcttc taggattatt gggtgagtt 60
cgtcttattt ttt 73

<210> 23
<211> 79
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
oligonucleotide

<400> 23
gatcaaaaaa taagacgaac tccacccaat aatcctagaa gcaagcttcc tcctaggatt 60
attgggtgaa gttcatccg 79

<210> 24
<211> 31
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
target sequence

<400> 24
ctcctaggat tattgggtga agttcatcct a 31

<210> 25
<211> 73
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
oligonucleotide

<400> 25
tgaagttgca cagaagttag gacaacccga agcttgggt tgttttaact tctgtgcagc 60
ttcattattt ttt 73

<210> 26
<211> 79
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
oligonucleotide

<400> 26
gatcaaaaaa taatgaagct gcacagaagt aagaacaacc ccaagcttcg ggttgtcctc 60
acttctgtgc aacttcacg 79

<210> 27
<211> 31
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
target sequence

<400> 27
gggttgtcct cacttctgtg caacttcact a 31

<210> 28
<211> 73
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
oligonucleotide

```
<220>
<221> modified_base
<222> (29)..(36)
<223> "n" may be a, t, c or g; see specification for various
      other descriptions.

<400> 28
tagctctatc atgttctagt tgacggcann nnnnnntgcc gtcgactagg acatggtaga 60
gttacagttt ttt                                73

<210> 29
<211> 73
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
      oligonucleotide

<220>
<221> modified_base
<222> (29)..(36)
<223> "n" may be a, t, c or g; see specification for various
      other descriptions.

<400> 29
cctggaggct tgtgttgagg ctgatacann nnnnnntgta tcagccttag cataaggcctc 60
cggtagttt ttt                                73

<210> 30
<211> 73
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
      oligonucleotide

<220>
<221> modified_base
<222> (29)..(36)
<223> "n" may be a, t, c or g; see specification for various
      other descriptions.

<400> 30
tagtatgttg ctacaatcag ctccgtaann nnnnnnttac ggagctgatt gtggcgacgt 60
attactcttt ttt                                73

<210> 31
<211> 73
<212> DNA
<213> Artificial Sequence
```

<220>
<223> Description of Artificial Sequence: Synthetic
oligonucleotide

<220>
<221> modified_base
<222> (29)..(36)
<223> "n" may be a, t, c or g; see specification for various
other descriptions.

<400> 31
tattatattc ctctggtggtgcactgccnn nnnnnnngca gtgtcacact agagggatat 60
agtacagttt ttt 73

<210> 32
<211> 73
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
oligonucleotide

<220>
<221> modified_base
<222> (29)..(36)
<223> "n" may be a, t, c or g; see specification for various
other descriptions.

<400> 32
ttgctgcaat ccgcagaagt ctcgttatnn nnnnnnnataa tgagacttct gcggattgtta 60
gtaattcttt ttt 73

<210> 33
<211> 73
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
oligonucleotide

<220>
<221> modified_base
<222> (29)..(36)
<223> "n" may be a, t, c or g; see specification for various
other descriptions.

<400> 33
ctcatgacca ctggccattc cacagcatnn nnnnnnnatgc tgtggagtgg ccgggtggta 60
tgagtcgttt ttt 73

```

<210> 34
<211> 73
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
      oligonucleotide

<220>
<221> modified_base
<222> (29)..(36)
<223> "n" may be a, t, c or g; see specification for various
      other descriptions.

<400> 34
atgtctgtaa tgccagcacc gcggggctnn nnnnnnagcc tcgtggtgct ggtattacag 60
atatctttt ttt                                         73

<210> 35
<211> 73
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
      oligonucleotide

<220>
<221> modified_base
<222> (29)..(36)
<223> "n" may be a, t, c or g; see specification for various
      other descriptions.

<400> 35
gatgaacttc acccaataat cctaggagnn nnnnnncttc taggattatt gggtgaggtt 60
cgtcttattt ttt                                         73

<210> 36
<211> 73
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
      oligonucleotide

<220>
<221> modified_base
<222> (29)..(36)
<223> "n" may be a, t, c or g; see specification for various
      other descriptions.

<400> 36
tgaagttgca cagaagttag gacaaccnn nnnnnnnggt tgttcttact tctgtgcagc 60
ttcattattt ttt                                         73

```

<210> 37
<211> 179
<212> DNA
<213> Human adenovirus type 5

<400> 37
ctctggccgg tcaggcgccg gcaatcggtt acgctctaga ccgtgcaaaa ggagagcctg 60
taagcggca ctcttcggtg gtctggtgga taaattcgca agggtatcat ggccggacgac 120
cgggggttcga gccccgtatc cggccgtccg ccgtgatcca tgcggttacc gccccgtg 179

<210> 38
<211> 127
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
promoter sequence

<400> 38
ggccgcgggg aggagtcgt ggtctggatt ccaattcagc gggagccacc tgatgaagct 60
tgatcgggtg gctctcgctg agttgaaatc cttttggat ccaccgggt tcgagccccg 120
cttaaga 127

<210> 39
<211> 127
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
promoter sequence

<400> 39
gatctcttaa gcggggctcg aaccgggtg gatccaaaaa ggattccaac tcagcgagag 60
ccaccggatc aagtttcatac aggtggctcc cgctgaattt gaatccagac cacggactcc 120
tccccgc 127

<210> 40
<211> 130
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
promoter sequence

<400> 40
ggccgcgggg aggagtcgt ggtctggatt ccaattcagc gggagccacc tgatgaagct 60
tgatcgggtg gctctcgctg agttgaaatc cttttggat ccaccgggt tcgagccccg 120
cttaagacta 130

12/12

<210> 41
<211> 126
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
promoter sequence

<400> 41
tagtcttaag cggggctcga accccgggtgg atccaaaaag gattccaact cagcgagagc 60
caccggatca agttcatca ggtggctccc gctgaattgg aatccagacc acggactcct 120
ccccgc 126